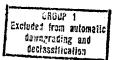
NPIC/TDS/D-979-67 17 August 1967

SUBJECT	: Evaluation of	of th
EFERENCE	: Your Note Regardi	ng Subject Dated 17 July 1967
1. On 7	August 1967,	of my Staff met with
	arances) of the	to discuss the
capabilities o		This Divisi
is part of the		
2. This	Division is located	at the sads a 15-man group of programmers at th
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SUBJECT:	Evaluation of	of the	25X
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		to tout and the management that	

equipment, but literature concerning this device is attached for your information. Information on this equipment is also being sent to IPD.

25X1

Colonel, USAF
Assistant for Technical Development, NPIC

Attachment: As stated

Distribution:

Orig & 1 - Addressee

1 - NPIC/IPD

1 - NPIC/TD/A

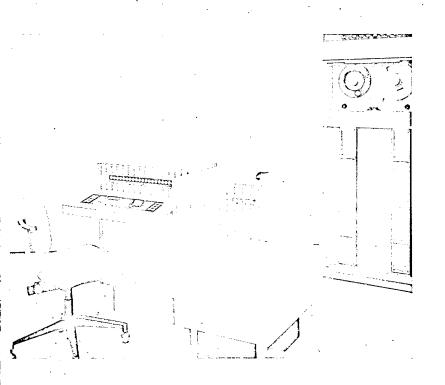
3 - NPIC/TD/DS

NPIC/TDS/DS (17 Aug 67)

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# SEUKEI

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# RAPID SEARCH MACHINE

A) NEW SOLID STATE ELECTRONIC DEVICE WITH THE CAPABILITY OF UTILIZING NATURAL LANGUAYOE FOR INFORMATION SEARCH. RETRIEVAL, AND DISSEMINATION Declassified in Part - Sanitized Copy Approved for Release 2012/09/14 CIA-RDP79B00873A001800010055-5

## CAPABILITIES

The Rapid Search Machine utilizes direct input of natural language information, as well as coded, indexed, or structured information files. All basic design work has been completed and a prototype has been built and checked out.

This machine is queried by a request of logically connected search words describing information wanted and by using the same language utilized in the information file.

Identification numbers of the records that satisfy the request are the primary output of the Rapid Search Machine. In addition, an output mode is available that provides selected portions of the requested information to the user.

This compact unit is the only existing single device now offering these important advantages:

- Natural language searching.
- Rapid low cost searching.
- Information dissemination.
- No programming or indexing.
- Operates independently.
- Compatible with existing computer systems.

This machine is equipped with a number of attractive features that render it a particularly efficient information searching device. It has the capability to:

- Provide an associative search.
- Perform as a dissemination device, as well as an information retriever.
- Search magnetic tape forward or backward.
- Utilize a counting feature that enables machine users to perform statistical analysis of the information file.
- Process multiple requests by a single search of the complete information file.
- Search selected portions of the file and/or select portions for output.
- Accept less than an exact match.

#### The requestor may choose to:

- Link request words by AND, OR, AND NOT.
- Modify request words by specifying a variable prefix, suffix, or root.
- Search for phrases or individual words.
- Use a universal match character, when exact spellings or formulas are unknown or not required.

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## SYSTEM CONFIGURATION

System configuration will be determined by individual user needs. The following are available:

### • REQUEST INPUT

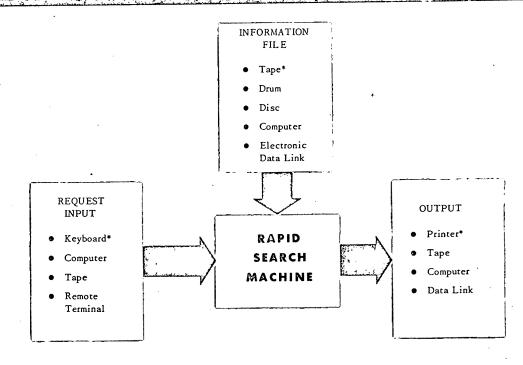
Request inputs may be from keyboard, computer, tape, or remote terminal.

#### • INFORMATION FILE

Information may be from tape, drum, disc, computer, or electronic data link.

#### OUTPUT

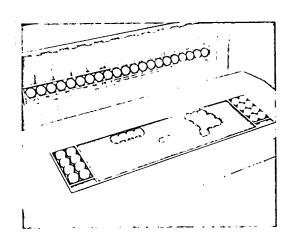
The output may be to a printer, tape, computer, or data link.



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## SYSTEM

# SPECIFICATIONS



## PHYSICAL

Power:

Size:

850 watts, 117 V, 60 cps (less tape

transport)

Weight:

410 pounds (less tape transport)
52 inches long by 25 inches wide by

38 inches high (less tape transport)

Electronics: Associative logic: TTL

I/O Control logic: DTL.

Data driver, cable driver and receivers,

Lamp Driver: discrete.

#### LOGICAL

Logical Connectives Used in the

Request:

AND, OR, AND NOT. Also accepts

partial request satisfaction.

Characters in Request:

80 characters

Fields in Request:

4 fields

\*The above specifications are for the RSM prototype only.

## APPLICATIONS

Information Dissemination

Library Operations

Legal Brief and Patent Searches

Man-Job Matching

Market Analysis Operations

Technical Data Center Operation

Statistical Analysis

Survey Operations

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